

SERAMPORE GIRLS' COLLEGE
Report of Department: PHYSICS

Session – 2022-2023

1. No. of students in the department:

	1st Sem	2nd sem	3rd Sem	4th Sem	5 TH Sem	6 th Sem
Honours (CBCS)	0	0	0	0	0	0
General (CBCS)	2	6	8	4	2	3

2. No. of Teachers:

Full Time	SACT - I	SACT- II	Total
1	0	0	0

3. Student-Teacher ratio: 25:1

4. Class routine of the department for the academic session 2022-2023 with notingno. of classes for every teacher per week. (Attachment 1)

Even Sem: 20 /Week
Odd Sem: 20/ Week

ANNEXURE I AND II

5. Report on

- Experiential Learning- Survey, Educational Tour, Project, Excursion
- Participative Learning- Extension Lecture, Faculty Exchange, Student Seminar, Add on Course, Wall Magazine, Outreach Programme, Debate, Quiz and other relevant activities
- Celebration/ Commemoration of Days by the Department. Mention date, name of the event, number of participants and outcome

Format

EXPERIENTIAL LEARNING				PARTICIPATIVE LEARNING			
DATE	NAME OF THE EVENT	NUMBER OF PARTICIPANTS	OUTCOME	Date	Name of the Event	Number of Participants	Outcome
Sem IV 6 months	Project SEC B1 paper Arduino	4	Students were able to complete project work using Arduino Uno Board . This is part of their SEC B1 paper of CBCS syllabus	26/04/2023	Quiz	10	Discussion about recent problems and their probable solutions

Report attached. ANNEXURE III AND IV

STUDENT PROGRESSION REPORT: First batch of Sem VI is yet to come

Year	Name of the Student	Higher Studies
NA	NA	NA

6. Continuous Internal Assessment (Attach the file given for Criterion 2)

CIE I Marks March 2023 (Sem IV and VI)					
date of exam: 2nd may to 6th May 2023					
SEM VI					
Paper:Digital Electronics					
Code: DSE B1					
Date exam: 06/05/2023					
Sl	Name	Roll College	full marks	marks obtained	Remark
1	Sunita Dubey	20695	20	6	SL
2	Prity Kumari	20693	20	6	SL
3	Kiran Singh	20698	20	7	SL
	AL:= Advanced Learner		SL= SLOW Learner		
SEM IV					
Paper:Waves and Optics					
Exam date: 02/05/2023					
Sl	Name	Roll College	full marks	marks obtained	Remark
1	Asiya Parvin	21344	20	9	SL
2	Moshahida	21351	20	9	SL
3	Shana Shahid	21366	20	6	SL
4	Nishu Bhagat	21355	20	10	SL
SEM IV					
Paper:Arduino					
Exam date: 02/05/2023					
Sl	Name	Roll College	full marks	marks obtained	Remark
1	Asiya Parvin	21344	10	10	SL
2	Moshahida	21351	10	8	SL
3	Shana Shahid	21366	10	6	SL
4	Nishu Bhagat	21355	10	10	SL
SEM II Paper:ELECTRICITY AND MAGNETISM Code: CC4/GE4					
Date of exam: 03/05/2023					
Sl	Name	Roll	full marks	marks obtained	Remark
1	Gungun Mishra	22773	10	9	SL
2	Subhra Sadhukhan	22792	10	11	AL
3	SUCHETA KUNDU	22052	10	6	SL
4	POUSHALI SARKAR	22050	10	6	SL
5	ANUSHREE		10	4	SL
6	ARPITA JHA	22048	10	0	SL

7. Result of final university examination. 2023- Semester 6

Results Yet to Publish

HONS	Appeared	Passed	A+	A	B+	B	C	D
GENERAL								

8. Teachers' Profile for the academic session

a) Upgradation of qualification: NA

- b) Paper publication: 2
- c) OP/ RC attended: NA

Paper Details:

1. Design of RRAM with high storage capacity and high reliability for IoT applications

J Wang, L Ji, J Bi, M Liu, K Xi, S Majumdar, S Mehmood

Solid-State Electronics 194, 108292

Publication date : 2022/8/1

2. The influences of radiation effects on DC/RF performances of L_g= 22 nm gate-all-around nanosheet field-effect transistor

Y Ma, J Bi, S Majumdar, S Mehmood, L Ji, Y Sun, C Zhang, L Fan, B Zhao, ... Semiconductor Science and Technology 37 (3), 035010

Date: 2022/1/24

Serampore Girls' College

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Re- Accredited by NAAC : Grade B (2nd Cycle)

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www.seramporegirlscollege.org

REPORT ON PROJECT WORK OF Arduino SEC B -1

Academic Session: 2022-2023

SEMSTER:IV (GEN)

Name of Course: ARDUINO (PROJECT TYPE)

Code: SEC B1

Location: Serampore Girls' College, WEST BENGAL

Course Objective:

Students will learn

- 1. LED Blinking and fading. 2. Measurement of voltages (Below 5 V and above). 3. Interfacing 7 Segment display. 4. Construction of thermometer using LM35 or Others

Date of report submission: 25/06/2023 to 27/06/2023

Duration: 6 months (1 semester)

students enrolled: 4

Student submitted: 4

Guided by:

Dr. Sandip Majumdar (Department of Physics, Serampore Girls' College)

Course Outcome:

- Students were able to learn basic projects using Arduino Uno kit.



Sandip Majumdar

HOD Dept of Physics, Serampore Girls' College

Report format of Students centric method of teaching learning

Organising Department: PHYSICS

Academic Session:2022-23

Report on QUIZ Organized by Dept of Physics

Type of the Activity: Participative learning

Objective of the Event: To give some Enthusiasm for learning and increase knowledge of General Knowledge

Date: 26/04/2023

Time of the Event:1:00 p.m. -3:00 p.m.


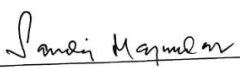
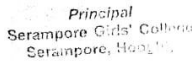

Number of attendees: (a) Student (mention semester): 10(All Semester)

(b) Teacher: 04

Venue: VB-6

Speakers (if any) : N/A

Outcome: Discussion about recent problems and their probable solutions.

Serampore Girls' College (Estd. : 1981) Accredited by NAAC 13, T. C. GOSWAMI STREET, SERAMPORE, HOOGHLY. PIN -712 201, WEST BENGAL. Ph: (033) 2652 9334 • (033) 26527850 (Principal) • 26623723 (Office) • 2652-0008 E-mail : science@seramporegirlscollege.org • sgc.scdept@gmail.com	
Ref. No.	Date: 24.4.23
<u>NOTICE</u>	
Dept. of Physics has arranged a Quiz Contest for all B.Sc. students on 26 th April, 2023 from 1p.m. to 3:00 p.m. Students are encouraged to join the above said contest. Interested students are asked to enroll their names to Dr. Sandip Majumdar, Dept. of Physics within 25.04.2023.	
 Principal Serampore Girls' College	 Department of Physics Serampore Girls' College
 Principal Serampore Girls' College Serampore, Hooghly.	 Department of Physics Serampore Serampore, Hooghly.



Quiz with students; 2022-2023 Session; semester –II, IV, VI dt: 26/04/2023

Sandip Majumdar

Head of the Department
Department of Physics
Serampore Girls' College

Serampore Girls' College

Routine –Science (EVEN semester)-2022-23 (January-June,2023)

Day	SEM	9:45-10:45	10:45-11:45	11:45-12:45	12:45-1:45	2:00-3:00	3:00-4:00
Monday	II		CMSA-CC3 (M.G) VB 8 CMSG CC2 (M.G) VB 8	MTMG (M.N) VB 6 ZOOG (A.A) NB 16	CMSA-CC4 (I.G) VB 6	MTMG (M.N) P LAB BOTG (M.H) ICT LAB	AECC (HONS)
	IV	ZOOG(A.A) LAB	MTMG (M.N) VB 6 ZOOG(A.A) LAB	CMSA-CC8 (M.G) ICT VB 8 ELTG (I.G) P LAB BOTG (M.H) ICT LAB	CMSG (M.G) VB 8 BOTG (M.H) SEC NB 16	CMSA- CC10 (I.G) ICT VB 6	
	VI		BOTG (M.H) NB 16		MTMG (M.N) P LAB ZOOG(A.A) ICT LAB	CMSA-CC13(M.G) VB 8	CMSA-CC13(M.G) VB 8 CMSG (M.N) P LAB
Tuesday	II	ELTG (I.G) ICT NB 16 PHSG (S.M) P LAB BOTG(M.H) LAB	MTMG (M.N) ICT VB 6	CMSA-CC4 (I.G) (P) VB 6 CEMG (M.M) NB 16	CMSA-CC4 (I.G) (P) VB 6 CEMG (M.M) NB 16		AECC (HONS)
	IV	MTMG (M.N) ICT VB 6	ELTG (I.G) (T) NB 16 PHSG (S.M) P LAB 1	CMSA CC9 (A.G) VB 8	CMSA CC9 (A.G)(P) VB 8 BOTG (M.H) ICT LAB PHSG (S.M) SEC P LAB 1	CMSA CC9 (A.G)(P) VB 8 CEMG (M.M)(P) LAB	CEMG (M.M)(P) LAB
	VI	CMSA CC14 (A.G) VB 8	CMSA CC14 (A.G) VB 8 BOTG (M.H) (P) LAB	PHSG (S.M) ICT P LAB 1 BOTG (M.H)(P) LAB	MTMG (M.N) P LAB	MTMG SEC(M.N) P LAB	
Wednesday	II	ZOOG(A.A) NB 16	CMSA –CC4 (I.G) VB 8 CEMG (I.C) P LAB	CMSA-CC3(M.G) ICT VB 8 CMSG-CC2(M.G) VB 8 BOTG (M.H) P LAB	MTMG (M.N) VB 6	PHSG (S.M) VB 6	AECC(GEN) (M.N)
	IV	CMSA- CC10 (I.G) VB 6 BOTG (M.H) (P) LAB	MTMG (M.N) VB 6 BOTG (M.H) (P) LAB	PHSG (S.M) (T) P LAB 1 ZOOG(A.A) LAB	CMSA-CC8 (P) (M.G) VB 8 BOTG (M.H) LAB PHSG (S.M) SEC P LAB 1	CMSA-CC8 (P) (M.G) VB 8 CEMG (I.C) (T) NB 16	
	VI		PHSG (S.M) P LAB 1 ZOOG(A.A) NB 16	CEMG (I.C) NB 16	CEMG (I.C) (T) NB 16	MTMG (M.N) ICT P LAB	

Thursday	II	CEMG (M.M) NB 16	BOTG (M.H) (P) LAB PHSG(S.M) ICT P LAB 1	BOTG (M.H) (P) LAB	ELTG (I.G) VB 8 ZOOG(A.A)(P) LAB	CMSA-CC3(M.G) (P) VB 8 CMSG-CC2(M.G) (P) VB 8 ZOOG(A.A) (P) LAB	CMSA-CC3(M.G)(P) VB 8 AECC (GEN) (A.A)
	IV	BOTG (M.H) LAB	CMSA- CC10 (I.G)(P) VB 6 CEMG (M.M) NB 16	CMSA- CC10 (I.G)(P) VB 6 PHSG (S.M)(P) P LAB	CMSA-CC8 (M.G) VB 6 PHSG (S.M)(P) P LAB	BOTG -SEC(M.H) NB 16	
	VI		CMSA-DSE A(M.G) VB 8 ICT	CMSA-DSE A(M.G) (T) VB 8 ZOOG(A.A) NB 16	BOTG (M.H) NB 16	PHSG (S.M) ICT VB 6	
Friday	II		MTMG (M.N) VB 6	PHSG(S.M) (T) VB 6	CEMG (I.C) (P) LAB	CEMG (I.C) (P) LAB	
	IV	ZOOG(A.A)(P) LAB	CMSG (M.G) (P) VB 8 ZOOG(A.A)(P) LAB	CMSG (M.G) (P) VB 8 CEMG (M.M) (T) NB 16	MTMG (M.N) VB 6	MTMG (M.N) VB 6	PHSG(S.M) (T) VB 6
	VI	CEMG (M.M) (P) LAB	CEMG (M.M) (P) LAB	MTMG (M.N) P LAB ZOOG(A.A)(P) LAB	CMSA-DSE A(M.G) (P) VB 8 PHSG (S.M)(P) P LAB ZOOG(A.A)(P) LAB	CMSA-DSE A(M.G)(P) VB 8 PHSG (S.M)(P) P LAB	CMSG (M.N) VB 8 CEMG (I.C) ICT LAB
Saturday	II	ZOOG(A.A) LAB	PHSG (S.M)(P) P LAB 1	ELTG (I.G) (T) VB 8 PHSG (S.M)(P) P LAB 1	MTMG (M.N) (T) P LAB		
	IV		MTMG (M.N) (T) VB 6	CMSA SEC (A.G) VB 6 CMSG SEC (M.G) VB 8 CEMG (I.C) NB 16	ELTG (I.G) VB 8 PHSG(S.M) P LAB 1		
	VI	CMSA-DSE B(A.G)(P) VB 8 PHSG(S.M) P LAB	CMSA-DSE B(A.G)(P) VB 8 ZOOG(A.A) SEC LAB	MTMG (M.N) (T) P LAB ZOOG(A.A) SEC LAB	CMSA-DSE B (A.G) VB 6 CEMG (I.C) NB 16 ICT	PROJECT (M.G/A.G/I.G) VB 8 MTMG SEC(M.N) VB 6	

Routine –Science (ODD semester)-2022-23 (July-December, 2022)

Day	SEM	9:45-10:45	10:45-11:45	11:45-12:45	12:45-1:45	2:00-3:00
Monday	I	BOTG (M.H)ICT LAB	ELTG VB-6 ZOOG(A.A) NB-16	MTMG (M.N) VB-6	AECC-I	CMSG(M.G)P VB-8 CMSA-CC1 VB-6
	III	ZOOG(A.A) NB-16	BOTG (M.H) P LAB	CMSA-CC5(M.G) ICT VB-8 BOTG (M.H) P LAB	CMSA-CC6(M.N) VB-6	MTMG (M.N) PHYS LAB
	V		MTMG (M.N) PHYS LAB	ZOOG(A.A) NB-16	CMSA-DSEA(M.G)P VB-8 BOTG (M.H) NB-16	CMSA-DSEA(M.G)P VB-8 BOTG(M.H)SEC NB-16
Tuesday	I	BOTG(M.H)P LAB	PHSG (S.M) NB-16 / ELTG BOTG(M.H)P LAB	MTMG (M.N)ICT VB-6	CMSA-CC1 VB-6	CMSA-CC1 CEMG(I.C) NB-16
	III	CMSA-CC6(M.N) P VB-8	CMSA-CC6(M.N)P VB-8 CEMG(I.C)P LAB	CMSA-CC7(A.G) VB-8 CEMG(I.C)P LAB	MTMG (M.N) PHYS LAB BOTG(M.H)ICT LAB	PHSG (S.M) VB-6 / ELTG ICT
	V	CMSA-DSEB(A.G) VB-6	CMSA-DSEB(A.G) VB-6	PHSG (S.M) LAB BOTG(M.H)SEC NB-16	CMSA-CC12(A.G)P VB-8 CEMG(I.C) NB-16	MTMG (M.N) SEC PHYS LAB CMSA-CC12(A.G)P VB-8 BOTG(M.H)(T) LAB
Wednesday	I	ZOOG(A.A)P LAB CMSA-CC2 P (M.G/M.N) VB-8	ZOOG(A.A)P LAB CMSA-CC2 P (M.G/M.N) VB-8 PHSG (S.M) LAB / ELTG		MTMG (M.N) VB-6 BOTG(M.H) NB-16	CEMG(I.C)ICT LAB
	III	CMSA-SEC(A.G) VB-6 BOTG(M.H) NB-16	CMSA-SEC(A.G) VB-6 CMSG(M.G)P VB-8 CEMG(I.C) NB-16	CMSA-CC6(M.N) VB-6 CEMG(I.C)ICT NB-16	PHSG (S.M)SEC LAB ZOOG(A.A)ICT LAB	PHSG (S.M) VB-6 / ELTG
	V		MTMG (M.N)ICT PHYS LAB	CMSA-DSEB(A.G)(T) VB-8	CMSA-DSEA(M.G) VB-8 CMSG(M.G)P VB-8	MTMG (M.N) SEC PHYS LAB

Thursday	I	BOTG(M.H)(T) NB-16	CMSA-CC2 (M.G) VB-8 ZOOG(A.A) (T) NB-16	PHSG (S.M) VB-6 /ELTG ICT		
	III	PHSG (S.M) VB-6 /ELTG ZOOG(A.A)(T) NB-19	PHSG (S.M) VB-6 /ELTG BOTG(M.H)(T) NB-19	CMSA –CC5(M.G)P VB-8	CMSA –CC5(M.G)P VB-8	
	V			BOTG(M.H)ICT LAB	PHSG (S.M) LAB ZOOG(A.A)P LAB	CMSA –CC11(M.G)ICT VB-8 PHSG (S.M) LAB ZOOG(A.A)P LAB
Friday	I		MTMG (M.N) VB-6	PHSG (S.M)/ELTG(T) LAB ZOOG(A.A)ICT LAB	CMSA-CC1 PHSG (S.M)/ELTG LAB	MTMG (M.N) VB-6
	III	ZOOG(A.A)P LAB	ZOOG(A.A)P LAB	MTMG (M.N) PHYS LAB CMSA –CC5(M.G) VB-6	CMSA-CC6(M.N)ICT VB-6 CMSG(M.G) VB-8 CEMG(I.C) NB-16	PHSG (S.M)/ELTG (T) NB-16
	V	MTMG (M.N) PHYS LAB	PHSG (S.M) ICT LAB	CEMG(I.C) NB-16		CMSA-CC11(M.G) VB-8 CEMG(I.C)ICT NB-19
Saturday	I	PHSG (S.M) VB-6 /ELTG	MTMG (M.N)-T VB-6	CMSA-CC1 VB-6 CEMG(I.C)P LAB	CMSG(M.G) NB-16 CEMG(I.C)P LAB	
	III	CMSA-CC7(A.G)P VB-8 ZOOG(A.A)SEC LAB	CMSA-CC7(A.G)P VB-8 PHSG (S.M)SEC ZOOG(A.A)SEC LAB	MTMG (M.N) PHYS LAB	PHSG (S.M)/ELTG VB-6	PHSG (S.M) SEC LAB
	V		CMSG(M.G) PHYS LAB CEMG(I.C) NB-16	CMSA-DSEB(A.G) VB-8 PHSG (S.M)(T) LAB ZOOG(A.A)(T) NB-16	MTMG (M.N)-T PHYS LAB CMSA-CC12(A.G) VB-8	CMSA-CC12(A.G) VB-8